Applicable standard				
Rating	Operating temperature range	-55 ℃ to +125 ℃ (95 %RH Max.)	Storage temperature range	-55 ℃ to +125 ℃ (95 %RH Max.)
	Power	-- W	Characteristic impedance	50 Ω(0 to 18 GHz)
	Peculiarity	----	Applicable cable	----

SPECIFICATIONS

ITEM	TEST METHOD	REQUIREMENTS	QT	AT
CONSTRUCTION				
General examination	Visually and by measuring instrument.	According to drawing.	X	X
Marking	Confirmed visually.		—	—
ELECTRICAL CHARACTERISTICS				
Contact resistance	100 mA Max.(DC or 1000 Hz)	Center contact 10 mΩ Max.	X	X
		Outer contact 10 mΩ Max.	X	X
Insulation resistance	500 V DC.	1000 MΩ Min.	X	X
Withstanding voltage	500 V AC for 1 min. current leakage 2 mA Max.	No flashover or breakdown.	X	X
Return loss	Frequency 0 to 18 GHz.	Return loss 20 dB Min.	X	X
Insertion loss	Frequency - to - GHz.	--- dB Max.	—	—
MECHANICAL CHARACTERISTICS				
Contact insertion and extraction forces (HRM)	φ 0.91 $^{+0.005}_{0}$ by steel gauge.	Insertion force --- N Max.	—	—
		Extraction force 1.5 N Min.	X	X
Contact insertion and extraction forces (SMP)	φ 0.35 $^{0}_{-0.005}$ by steel gauge.	Insertion force --- N Max.	—	—
		Extraction force 0.2 N Min.	X	X
Insertion and extraction forces	Measured by applicable connector.	Insertion force --- N Max.	—	—
		Extraction force --- N Min.	—	—
Mechanical operation	500 times insertion and extractions.	1)Contact resistance: Center contact 18 mΩ Max. Outer contact 18 mΩ Max. 2)No damage, crack and looseness of parts.	X	—
Vibration	Frequency 10 to 500 Hz single amplitude 0.75 mm, 98 m/s^2 at 10 cycles for 3 directions.	1)No electrical discontinuity of 1 μs. 2)No damage, crack and looseness of parts.	X	—
Shock	490 m/s^2 directions of pulse 11 ms at 3 times for 3 directions.		X	—
Cable clamp strength (Against cable pull)	Using a pulling tester, pull the cable axially at a rate of mm/min. and record the strength at which the cable or connector breaks.	N Min.	—	—
ENVIRONMENTAL CHARACTERISTICS				
Damp heat	Exposed at -10 to +65 ℃, 90～98 % total 10 cycles.(240 h)	1)Insulation resistance: 100 MΩ Min. (at high humidity) 2) Insulation resistance: 1000 MΩ Min. (at dry) 3)No damage, crack and looseness of parts.	X	—
Rapid change of temperature	Temperature -65 → — →+125 → — ℃ Time 30 → 3 →30 → 3 min. Under 5 cycles.	No damage, crack and looseness of parts.	X	—
Corrosion salt mist	Exposed in 5 % salt water spray for 48 h.	Return loss 20 dB Min.	X	—

	Count	Description of revisions	Designed	Checked	Date
⚠1					

Remark
RoHS COMPLIANT

Unless otherwise specified, refer to IEC 60512.

Approved	KY.SHIMIZU	16.11.04
Checked	KY.SHIMIZU	16.11.04
Designed	TY.OZAKI	16.11.04
Drawn	TY.OZAKI	16.11.04

Note QT:Qualification Test AT:Assurance Test X:Applicable Test

HRS	SPECIFICATION SHEET	Drawing No.	ELC-364324-00-00	
		Part No.	HRMJ-SMPJ-18G	
	HIROSE ELECTRIC CO., LTD.	Code No.	CL311-0002-0-00	⚠1 1/1

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